

tape. Since tape motion is bidirectional, each motor serves as either the leading or trailing drive for the tape, depending upon the forward or reverse control status of the TU55. A positive stop is achieved by an electromagnetic brake mounted on each motor shaft. When a stop command is given, the trailing motor brake latches to stop tape motion. Enough torque is then applied to the leading motor to take up slack in the tape.

Tape movement can be controlled by commands originating in a computer and applied to the

TU55 via a suitable DECTape control, or can be controlled by commands generated by manual operation of rocker type switches located on the front panel of the transport. Manual control is used to mount new reels of tape on the TU55, or as a quick maintenance check for proper operation of the control logic in moving the tape.

The solid state TU55 is completed compatible with the older Type 555 Dual DECTape Transport and may be used to expand systems using the Type 555 Transport.

SPECIFICATIONS

General

Overall Size - 10-1/2 in. high, 19-1/2 in. wide, 9-3/4 in. deep

Mounting - Standard 19 in. rack. Four #10 32 screws mount chassis track assembly which holds transport. Chassis can be extended 16-3/4 in. beyond mounting surface for maintenance.

Power Requirements - -15 vdc, 10 amp maximum, +10 vdc, 50 ma maximum, 115 vac $\pm 10\%$, 1.0 amp idle, and 2.0 amp maximum current (60-cps models standard, 50-cps models on request)

Connectors - Commands: two 18-terminal FLIP CHIP female connectors. Information: two 36-terminal FLIP CHIP female connectors

Cooling - Internally mounted fan is provided

Operating Temperature - 50°F to 100°F ambient

Humidity - 10 to 90% relative humidity

NOTE: The manufacturer of the magnetic tape for DECTape recommends 40 to 60% relative humidity and 60° to 80°F as acceptable for operating environment.

Tape Characteristics

Capacity - 260 ft of 3/4 in., 1 mil Mylar sandwich tape

Reel Diameter - 2.8 in. empty reel, 3.9 in. for 260 ft of tape

Reel Diameter Ratio - 1:4 (maximum to minimum)

Tape Handling - Direct drive hubs and specially designed guides which float the tape over the head hydrodynamically. No capstans or pinch rollers are used.

Speed - 97 $\pm$ 14 ips

Density - 350 $\pm$ 55 bpi

Information Capacity - 2.7×10^6 bits per reel assembled into computer-length words by external DECTape control

Tape Motion - Bidirectional

Drive Characteristics

Times given are for 90% full speed.

Start Time - <200 msec

Stop Time - <150 msec

Turn Around Time - <200 msec

Input Signals to Transport from Control

Commands* - FORWARD (ground level assertion), REVERSE (ground level assertion), GO (ground level assertion), STOP (ground level assertion), and ALL HALT (negative level assertion) used to stop transport when computer halts.

Unit Select* - SELECT 1 through SELECT 8 (ground level assertion)

Control - POWER CLEAR standard DEC negative pulse to clear MOTION flip-flop when computer power is turned on

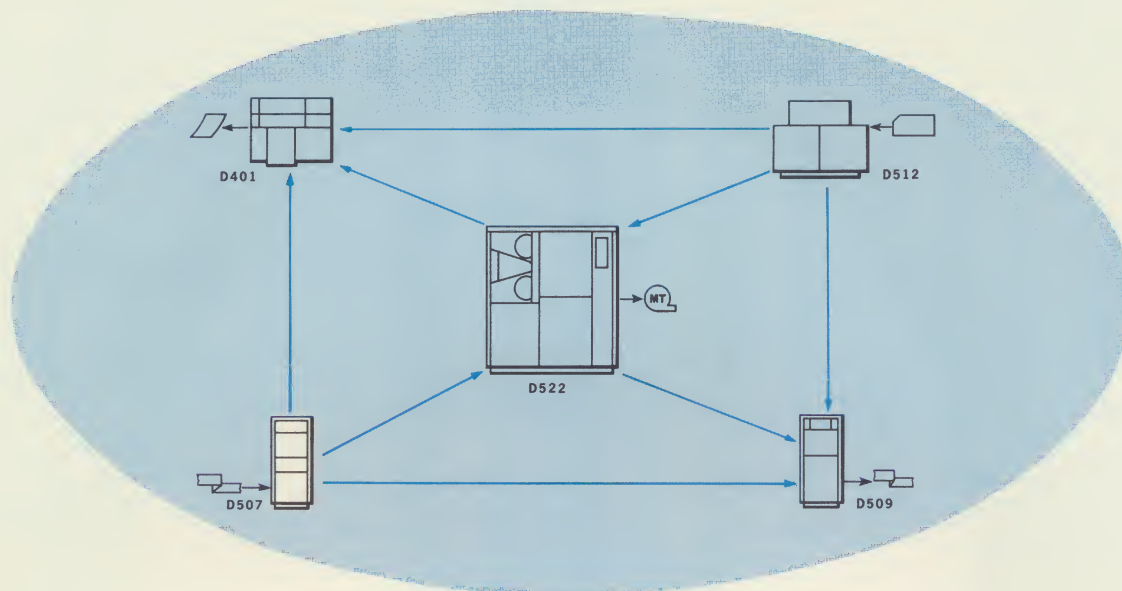
Output Signal from Transport to Control

Control - WRITE ENABLE standard DEC ground level for assertion

Price \$2,350

*These signals are approximately -3v and -15v when supplied by a control unit designed to operate the Type 555 Dual DECTape Transport which uses relay switching logic circuits, or are standard DEC logic levels of ground and -3v when supplied by a control unit designed specifically to drive the TU55.

TECHNICAL INFORMATION



OPERATING CHARACTERISTICS

Transmits to: D509 Paper Tape Receiver, D522 Magnetic Tape Terminal, D401 Printer Terminal
Telephone Lines: Dial or Lease
Data Set: 202C2 or 201B
Speed: 100 cps or 150 cps depending upon receiver used
Codes: 5 channel Teletype, 8-level Friden or IBM code, ASCII. Other codes upon approval
Tape Levels: 5, 6, 7, or 8-channel tape (factory preset)
Error Detection: Vertical and Longitudinal Parity Check, Modulo 8 Block Count, Character Sequence Check
Error Correction: Automatic Retransmission
Reader: Digitronics B2500, bi-directional photoelectric, solid-

state reads 5 through 8-level punched tape

Options: Character Counter, Spoolers, Unattended Operation, Data Set Select

INSTALLATION INFORMATION

Dimension: 22" w x 60" h x 18" d

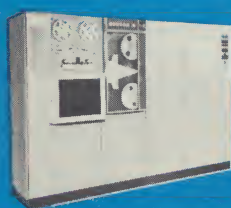
Weight: Approximately 500 pounds

Power Requirements: 115 volt, 60 cycle, single phase, 3 wire (AC, ACN and Conduit Ground) 15 amps, Power Receptacle: Hubbell Type 7310B or equivalent

Heat Dissipation: 2,500 BTU's per hour

Environmental Requirements: Operational Temperature Range: 50°F to 90°F ambient. Humidity Range: 30% to 80%

DIGITRONICS FAMILY OF COMPATIBLE DIAL-O-VERTER TERMINALS



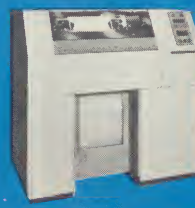
EXPANDED D 522



D509



D512



D401



D507



D522

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DIAL-O-VERTER® **MAGNETIC TAPE TERMINAL D522**

The D522 Magnetic Tape Terminal is one of Digitronics' family of thoroughly tested, compatible data handling devices which offer accurate, reliable, high-speed data communications at low cost.

The D522 can grow with user needs in modules on a "building block" basis. It starts out as a magnetic tape terminal, sending or receiving at full line speeds. It translates and formats data in a multiplicity of codes and it collects and transfers data between a great variety of input/output devices within one location or between central and remote locations. It acts as an off-line data converter and replaces expensive off-line satellite equipment.

Expansion of the D522 could include the addition of a high speed printer, a punched card transmitter and paper tape terminals. Facilities for the detection and automatic correction of errors are incorporated in the terminal to assure the integrity of data.